AMENDMENTS TO THE CLAIMS

- 1. (currently amended) A process for preparing a support for catalysts, which comprises:
 - a) preparing a hydrogel;
 - b) milling the hydrogel to give a finely particulate hydrogel having a solids content;
 - c) producing a slurry based onhaving a solids content, the slurry comprising the finely particulate hydrogel;
 - d) drying the slurry comprising the finely particulate hydrogel to give the, thereby forming a support for catalysts,

wherein athe finely particulate hydrogel in which comprises:

- at least 5% by volume of the particles, based on the total volume of the particles, have a particle size in the range from $> 0 \mu m$ to $\le 3 \mu m$; and/or
- at least 40% by volume of the particles, based on the total volume of the particles, have a particle size in the range from > 0 μ m to \leq 12 μ m, and/or
- at least 75% by volume of the particles, based on the total volume of the particles, have a particle size in the range from > 0 μ m to \leq 35 μ m₅

is produced in step b).

- (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in claim 1, wherein a<u>the finely particulate</u> hydrogel in whichcomprising at least 90% by volume of the hydrogel particles, based on the total volume of the particles, have has a particle size in the range from > 0 μm to ≤ 35 μm-is produced in step b).
- 3. (currently amended) A<u>The</u> process for preparing athe support for catalysts as claimed in claim 1-or 2, wherein the finely particulate hydrogel produced in step b) has a solids content in the range from > 0% by weight to ≤ 25% by weight, preferably in the range from 8% by weight to 13% by weight, more preferably in the range from 9% by weight to 12% by weight, calculated as oxide.

- 4. (currently amended) A<u>The</u> process for preparing athe support for catalysts as claimed in any of the preceding claimsclaim 1, wherein athe finely particulate hydrogel in which comprising at least 40% by volume, preferably at least 50% by volume, of the hydrogel particles, based on the total volume of the particles, have has a particle size in the range from > 0 μm to ≤ 10 μm is produced in step b).
- 5. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein a<u>the</u> finely particulate hydrogel in whichcomprising at least 10% by volume of the hydrogel particles, based on the total volume of the particles, have has a particle size in the range from > 0 μm to ≤ 2.8 μm, preferably in the range from > 0 μm to ≤ 2.5 μm, is produced in step b).
- 6. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein inorganic hydroxides, oxide-hydroxides, oxides and/or salts, preferably selected from the group consisting of SiO₂, Al₂O₃, MgO, AIPO₄, TiO₂, ZrO₂, Cr₂O₃-andor mixtures thereof, are added to the hydrogel in step b) and/or the slurry in step c).
- 7. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein inorganic hydroxides, oxide-hydroxides, oxides and/or salts are added to the hydrogel in step b) and/or the slurry in step c) in an amount of ≤ 10% by weight, preferably ≤ 5% by weight, particularly preferably ≤ 2% by weight, based on the total solids content.
- 8. (currently amended) A<u>The</u> process for preparing athe support for catalysts as claimed in any of the preceding claimsclaim 1, wherein AlOOH is added to the hydrogel in step b) and/or the slurry in step c) in an amount of from 1% by weight to 30% by weight, preferably from 5% by weight to 20% by weight, based on the total solids content.

- 9. (currently amended) A<u>The</u> process for preparing a support for catalysts as claimed in any of the preceding claims l, wherein compounds of alkaline earth metals, preferably selected from the group consisting of Ca(OH)₂ and Mg(OH)₂, are added to the hydrogel in step b) and/or the slurry in step c) in an amount of from 1% by weight to 10% by weight, particularly preferably from 2% by weight to 4% by weight, based on the total solids content.
- 10. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein hydroxyl methyl cellulose is added to the hydrogel in step b) and/or the slurry in step c) in an amount of from 0.1% by weight to 10% by weight, particularly preferably from 1% by weight to 2% by weight, based on the total solids content.
- 11. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein the solids content of the slurry in step (c) is set to ≤ 20% by weight, preferably ≤ 15% by weight, particularly preferably ≤ 10% by weight, very particularly preferably in the range from 8% by weight to 10% by weight, based on the total weight, in step c).
- 12. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein drying of the slurry comprising the finely particulate hydrogel is carried out by means of spray drying.
- 13. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein ≤ 5% by volume, preferably ≤ 2% by volume, of the support particles obtained after drying have a particle size in the range from > 0 μm to ≤ 25 μm, based on the total volume of the particles.
- 14. (currently amended) A<u>The</u> process for preparing a<u>the</u> support for catalysts as claimed in any of the preceding claimsclaim 1, wherein the support particles produced after drying

have a mean particle size in the range from 1 μm to 350 μm, preferably in the range from 30 μm to 150 μm and particularly preferably in the range from 40 μm to 100 μm.

15. (currently amended) A support for catalysts which can be prepared as claimed in any of the preceding claims

by a process comprising:

- a) preparing a hydrogel;
- b) milling the hydrogel to give a finely particulate hydrogel;
- c) producing a slurry comprising the finely particulate hydrogel;
- d) drying the slurry comprising the finely particulate hydrogel, thereby forming a support for catalysts,

wherein the finely particulate hydrogel comprises:

- at least 5% by volume of the particles, based on the total volume of the particles, have a particle size in the range from $> 0 \mu m$ to $\leq 3 \mu m$; and/or
- at least 40% by volume of the particles, based on the total volume of the particles, have a particle size in the range from $> 0 \mu m$ to $\le 12 \mu m$, and/or
- at least 75% by volume of the particles, based on the total volume of the particles, have a particle size in the range from > 0 μ m to \leq 35 μ m.
- 16. (currently amended) A<u>The</u> support for catalysts as claimed in claim 15, wherein the further comprising a silicon content of the support isof ≥ 10% by weight, preferably ≥ 25% by weight, particularly preferably ≥ 30% by weight, very particularly preferably ≥ 50% by weight, based on the total weight of the support.
- 17. (currently amended) A<u>The</u> support for catalysts as claimed in claim 15-or 16, wherein the further comprising an aluminum content of the support isof ≥ 10% by weight, preferably ≥ 25% by weight, particularly preferably ≥ 30% by weight and very particularly preferably ≥ 50% by weight, based on the total weight of the support.

- 18. (currently amended) The use of a support for catalysts as claimed in any of claims 15 to

 17 as catalyst A process comprising preparing a catalyst comprising a support, the support
 being prepared by a process comprising:
 - a) preparing a hydrogel;
 - b) milling the hydrogel to give a finely particulate hydrogel;
 - c) producing a slurry comprising the finely particulate hydrogel;
 - d) drying the slurry comprising the finely particulate hydrogel, thereby forming a support for catalysts,

wherein the finely particulate hydrogel comprises:

- at least 5% by volume of the particles, based on the total volume of the particles, have a particle size in the range from $> 0 \mu m$ to $\leq 3 \mu m$; and/or
- at least 40% by volume of the particles, based on the total volume of the particles, have a particle size in the range from $> 0 \mu m$ to $\le 12 \mu m$, and/or
- at least 75% by volume of the particles, based on the total volume of the particles, have a particle size in the range from $> 0 \mu m$ to $\leq 35 \mu m$.
- 19. (currently amended) The use of a support for catalysts as claimed in any of claims 15 to 17 for preparing supported catalysts for the polymerization and/or copolymerization of olefins The process of claim 18 wherein the catalyst is a polymerization or copolymerization catalyst for olefins.
- 20. (new) The process of claim 3 wherein the solids content of the finely particulate hydrogel is in the range of 8% by weight to 13% by weight.
- 21. (new) The process of claim 20 wherein the solids content of the finely particulate hydrogel is in the range of 9% by weight to 12% by weight.
- 22. (new) The process of claim 4 wherein the finely particulate hydrogel comprises at least 50% by volume of the hydrogel particles.
- 23. (new) The process of claim 5 wherein the particle size range of the finely particulate hydrogel is from > 0 μ m to \leq 2.5 μ m.

- 24. (new) The process of claim 6 wherein the inorganic hydroxides, oxide-hydroxides, oxides and/or salts are selected from the group consisting of SiO₂, Al₂O₃, MgO, AlPO₄, TiO₂, ZrO₂, Cr₂O₃ and mixtures thereof.
- 25. (new) The process of claim 7 wherein the inorganic hydroxides, oxide-hydroxides, oxides and/or salts are added in an amount of \leq 5% by weight.
- 26. (new) The process of claim 25 wherein the inorganic hydroxides, oxide-hydroxides, oxides and/or salts are added in an amount of ≤ 2% by weight.
- 27. (new) The process of claim 8 wherein the AlOOH is added in an amount from 5% by weight to 20% by weight.
- 28. (new) The process of claim 9 wherein the compounds of alkaline earth metals are selected from the group consisting of Ca(OH)₂ and Mg(OH)₂.
- 29. (new) The process of claim 9 wherein the compounds of alkaline earth metals are added in an amount from 2% by weight to 4% by weight.
- 30. (new) The process of claim 10 wherein the hydroxyl methyl cellulose is added in an amount from 1% by weight to 2% by weight.
- 31. (new) The process of claim 11 wherein the solids content of the slurry in step (c) is ≤ 15% by weight.
- 32. (new) The process of claim 31 wherein the solids content of the slurry in step (c) is \leq 10% by weight.
- 33. (new) The process of claim 32 wherein the solids content of the slurry in step (c) is from 8% by weight to 10% by weight.

- 34. (new) The process of claim 13 wherein \leq 2% by volume of the support particles obtained after drying have a particle size in the range from > 0 μ m to \leq 25 μ m, based on the total volume of the particles.
- 35. (new) The process according to claim 14 wherein the support particles have a mean particle size in the range from 30 μ m to 150 μ m.
- 36. (new) The process according to claim 35 wherein the support particles have a mean particle size in the range from 40 μ m to 100 μ m.
- 37. (new) The process according to claim 16 wherein the silicon content is $\geq 25\%$ by weight.
- 38. (new) The process according to claim 37 wherein the silicon content is \geq 30% by weight.
- 39. (new) The process according to claim 38 wherein the silicon content is \geq 50% by weight.
- 40. (new) The process according to claim 17 wherein the aluminum content is \geq 25% by weight.
- 41. (new) The process according to claim 40 wherein the aluminum content is \geq 30% by weight.
- 42. (new) The process according to claim 41 wherein the aluminum content is > 50% by weight.